

Title (en)

ELECTRODE COMPRISING DIFFERENT ELECTRODE MATERIAL LAYERS AND LITHIUM SECONDARY BATTERY

Title (de)

ELEKTRODE MIT VERSCHIEDENEN ELEKTRODENMATERIALSCHICHTEN UND LITHIUMSEKUNDÄRBATTERIE

Title (fr)

ÉLECTRODE COMPRENANT DES COUCHES DE MATÉRIAUX D'ÉLECTRODE DIFFÉRENTS, ET BATTERIE SECONDAIRE AU LITHIUM

Publication

EP 2988352 A1 20160224 (EN)

Application

EP 14831744 A 20140728

Priority

- KR 20130090557 A 20130731
- KR 2014006879 W 20140728

Abstract (en)

Disclosed is an electrode including a current collector and an electrode material layer formed on the current collector, the electrode material layer including a first electrode material layer and second electrode material layer having different electrode active materials.

IPC 8 full level

H01M 4/36 (2006.01); **H01M 4/131** (2010.01); **H01M 4/136** (2010.01); **H01M 4/505** (2010.01); **H01M 4/58** (2006.01); **H01M 4/38** (2006.01); **H01M 4/587** (2010.01); **H01M 10/0525** (2010.01)

CPC (source: EP KR US)

H01M 4/13 (2013.01 - KR); **H01M 4/131** (2013.01 - EP US); **H01M 4/136** (2013.01 - EP US); **H01M 4/366** (2013.01 - EP KR US); **H01M 4/505** (2013.01 - EP KR US); **H01M 4/582** (2013.01 - US); **H01M 4/5825** (2013.01 - EP US); **H01M 4/64** (2013.01 - KR); **H01M 10/0525** (2013.01 - KR); **H01M 4/386** (2013.01 - EP US); **H01M 4/587** (2013.01 - EP US); **H01M 10/0525** (2013.01 - EP US); **H01M 2220/30** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Cited by

US11757093B2; US12015146B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2988352 A1 20160224; **EP 2988352 A4 20161130**; **EP 2988352 B1 20171101**; CN 105247706 A 20160113; CN 105247706 B 20190614; JP 2016524795 A 20160818; JP 6485814 B2 20190320; KR 101574965 B1 20151207; KR 20150015069 A 20150210; US 2016133930 A1 20160512; US 9985287 B2 20180529; WO 2015016554 A1 20150205

DOCDB simple family (application)

EP 14831744 A 20140728; CN 201480030801 A 20140728; JP 2016516466 A 20140728; KR 20130090557 A 20130731; KR 2014006879 W 20140728; US 201414893352 A 20140728